

NATIONAL SCIENCE FOUNDATION

WASHINGTON, D.C. 20550

Office of Science Information Service

March 4, 1970

STATINTL

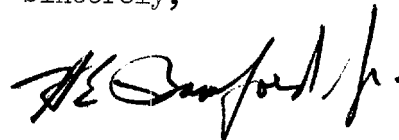
[REDACTED]
Deputy Director of Computer Services
Central Intelligence Agency
Washington, D. C. 20505

STATINTL

Dear [REDACTED]

I would like to express again our appreciation for your assistance in evaluating A Program for a National Information System for Physics 1970-1972, submitted by the American Institute of Physics. The AIP submission requested support of a number of activities, comprising three distinct projects: operation of the developing system, beginning early in 1970 at the Stage I capability level; development of the Stage II system; and planning for more advanced capability stages. Your views were instrumental in our decision to recommend an austere funding program, with augmentation up to the level of full funding contingent upon effective action by the AIP to correct programmatic deficiencies identified in the review process. In February 1970, the Foundation awarded grants in support of these projects with funds being provided for the support of activities during calendar year 1970. Copies of the project summary sheets of these grants are enclosed.

Sincerely,



H. E. Bamford, Jr.
Program Director
for Information Systems

Enclosures

AMERICAN INSTITUTE OF PHYSICS

OFFICE OF SCIENCE INFORMATION SERVICE

KOCH

INFORMATION SYSTEMS PROGRAM

American Institute of Physics, New York, N. Y.; "National Information System for Physics: Advance Planning," H. William Koch, Director; Ten months*; \$98,300

BRIEF DESCRIPTION OF PROJECT: The purpose of this project is to maintain and enhance the readiness of the American Institute of Physics to carry out a program of information system development and operation in the field of physics and astronomy. Its specific objectives are (1) the annual revision of A Program for a National Information System for Physics,** (2) the formulation of advanced system concepts (i.e., system concepts at capability Stage III and higher), and (3) the formulation of advanced development objectives (i.e., specific objectives for technological progress). To achieve these objectives the Institute will conduct studies of an exploratory nature and will establish and maintain liaison with other organizations as necessary for that purpose. The project will include no production of goods or services for sale and no basic research, no advanced development, and no engineering or acquisition of system components.

* To be supplemented later for an additional 26 months of funding.

** The final report under GN-710 will constitute the first revision and will cover the period 1971-1975.

KOCHINFORMATION SERVICES PROGRAM

American Institute of Physics, New York, N.Y.; "National Information System for Physics:--Operations and Services", H. William Koch, Director; Ten Months; \$265,300.

BRIEF DESCRIPTION OF PROJECT: The purpose of this project is to maintain the operational capability and services of the AIP information system for physicists and astronomers, which was designed and developed under earlier NSF grants through February 1970; and to implement and maintain the new operational capability and services to be developed under AIP's Program for a National Information System for Physics over the proposed three-year period starting on March 1, 1970. The specific objective of the project is to establish within AIP an expanded, improved, and viable computer-based information system for the dissemination of physics information to the U.S. science and engineering community. The new operational activities and services to be added to the AIP's existing operational information system during the three-year period include the following:

- (1) Process a substantial portion of the world's physics journal literature into a computer file on a current basis; including classifying, indexing, keyboarding, checking, etc.
- (2) Obtain a substantial part of the remainder through exchange with other services.
- (3) Produce a monthly magnetic-tape service containing computer-readable unit records of the documents put into the file in the preceeding month.
- (4) Produce a current-awareness journal containing appropriate parts of these unit records, displayed under significant headings.
- (5) Assist in the compilation of indexes to the AIP primary journals as a by-product of the store.
- (6) Produce a series of specialized bibliographies in various parts of physics on a continuing basis, as a by-product of the store.
- (7) Perform retrospective searches on the store as demanded, for instance, to aid writers of reviews and compilations.
- (8) Produce lists of selected articles in order to inform members of special interest groups about the existence of articles of interest to them. This service, together with appropriate microform backup of the primary articles, allows the subscriber organization to initiate an SDI service.

KOCH

The income derived from the sale of these new products and services will be used to support the operational costs of the AIP computer-based information system. The purpose of the Foundation's support is to fund the cumulative deficit of the AIP operational system, and the services derived from it, during the specified three-year period. It is AIP's goal and intention to make the operational activities of its computer-based information system and services as self-supporting as possible during the period of NSF support and during the period thereafter.

RECOMMENDATION:

This recommendation is for the support of the anticipated deficit resulting from the operations and services performed during the first part (March 1 to December 31, 1970) of the proposed three-year program as shown on the attached summary budget. It is anticipated that subsequent deficit support requests will be considered and additional awards will be recommended and provided through appropriate amendments to this grant.

N-3302

OSIS:InSP:LCina:jmc

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AMERICAN INSTITUTE OF PHYSICS

OFFICE OF SCIENCE INFORMATION SERVICE

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INFORMATION SYSTEMS PROGRAM

American Institute of Physics, New York, N. Y.; "National Information System for Physics: Stage II Development;" H. William Koch, Director; Thirteen months*; \$640,200

BRIEF DESCRIPTION OF PROJECT: The purpose of this project is to modernize and improve the existing information system in physics and astronomy. Its specific objective is the incremental capability to produce goods and services, cover sources of information and types of user, and make network connections which are defined for Stage II in A Program for a National Information System for Physics.** The AIP will design, procure, produce, and install hardware and software and recruit, train, and organize operating personnel as necessary to bring the Stage II system to a state of operational readiness. The project will include no production of goods or services for sale and no planning, research, engineering, or other activity not necessary to achieve the stated objective.

* To be supplemented later for an additional 26 months of funding.

** Issued annually by the American Institute of Physics.